US ERA ARCHIVE DOCUMENT

## CHILD-RESISTANT PACKAGING REVIEW

IN <u>01/07/97</u> OUT <u>February 27, 1997</u>

RD, RSB, PCS Reviewed by Rosalind L. Gross February 27, 1997

EPA Reg. No. or File Symbol 64248-RR & 64248-RN

DP Barcode <u>D232442</u>

Date Division Received 12/27/96

Type Product(s) Insecticide (roach & ant products)

Data Accession No(s). 4441357-01

Product Mgr./Chemical Review Mgr/Contact Person PM 10 Division RD

Product Name(s) Maxforce Roach Bait F .05 and Maxforce Ant Bait F1

Company Name(s) Maxforce Insect Control Systems

Submission Purpose

Examine registration application to ascertain if packaging is CRP GLM studies 14358A

Active Ingredient(s), PC code, & %

Fipronil (129121) - 0.05% & 0.01%

## **Summary of Findings**

EPA REG # 64248-RR a failure is 8 stations not 9 based on toxicity of the Fipronil. GLM 14358A indicated one child opened 4 stations (1 before demonstration) and one child opened one station after demonstration. This is a pass of the child test according to the sequential test chart in 16 CFR 1700.20. See chart for details.

EPA REG # 64248-RN contains 24 stations and as such children should have been given 24 stations at the beginning of the test. It would be preferred for the registrant to limit the number of stations per retail package to 12 to be consistent with the number of stations tested with the children. However, the amount of Fipronil in all 24 stations is less than 5.7mg, the children did get 12 stations at the beginning of the test, and only one child opened multiple stations (4 stations - 1 before demonstration) and one child opened one station after demonstration. It is doubtful, that giving the children an additional 12 stations would change the results of the test from a CRE to a non CRE package. In conclusion GLM 14358A will be adequate to show the CRE of the station. See chart for details.

This study did not involve a senior adult or younger adult test. Only child test data was submitted.

Under 40 CFR 157.32(a) child-resistant packaging for pesticides must meet the effectiveness specifications described in 16 CFR 1700.15(b) when tested by the protocol specified in 16 CFR 1700.20. The Agency has recently granted an exemption from the adult effectiveness specifications as described in 16 CFR 1700.15(b)(2) ease of adult opening. The Agency will publish a Notice in the Federal Register of the granting of the exemption. This exemption applies only to prefilled, nonrefillable insecticide bait stations that are not designed or intended to be opened or activated in a manner that exposes the contents to human contact. This exemption is only from the adult effectiveness specifications as described in 16 CFR 1700.15(b)(2) ease of adult opening. The exemption will be for a five year time period and will apply to other products of substantially similar composition and intended uses.

Therefore the child test data submitted is sufficient to fulfill the CRP requirements of registration provided that:

- 1. The CRP certification, which must comply with PR96-2, specifies that this package does not comply with the senior and younger adult effectiveness specifications per the aforementioned exemption.
- 2. The product as packaged still fully complies with all other child-resistant packaging effectiveness, compatibility, and durability standards as well as all other requirements of 40 CFR Part 157.

FIPRONIL

Fipronil has an acute dietary NOEL of 0.5mg/kg for neurotoxicity (memorandum S.Diwan; R.Keigwin 6/25/96) A failure for fipronil is access to 5.7mg of fipronil.1

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>6 (6.9)	6.6mg	0.825mg	0.03	2.75g	ဘ	98-0954	1 1507 1	2000000	
>10 (10.9)	4.2mg	0.525mg	0.03	1.75g	8	96-095A	14507A	441336-02	64248-RE
20 (0.9)	6.6mg	0.825mg	0.03	2.75g	8	96-095A	14507A	441336-02	64240-GU
VE (E O)	9 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.052cm	0.03	1.75g	8	96-095A	14507A	441336-02	64240-GU
>10 (10 9)	3.6mg	0.15mg	0.01	1.5g	24	96-075A	14358A	441357-01	64248-RN
30	2 0	Gric 7.0	o.co	1.5g	œ	96-075A	14358A	441357-01	64248-RR
>7 (7.6)	0.04119	0.42mg	0.03	1.49	12	96-119A	14598A	441841-01	64240-GG
11 (11.4)	5 name	0.5mg	0.05	19	12	96-119A	14598A	441841-01	64240-GE
	0.90mg	U. Tomg	0.01	1.5g	3,6	97-007A	15040A		64240-GN
28	0.90mg			Q	(	90	14080A	441841-01	(indoor <sup>3</sup> )
38	0.45 -	0.15mg	0.01	1.5a	ည က	06-1104	145084	11011	(outdoor)
38	0.45 - 0.90mg	0:15mg	0.01	1.5g	3, 6	96-067A	14273A	441337-01	64240-GN
STATION <sup>2</sup>		NIG		•	PKG				
5.7MG AI	PKG MG	TION	% A	# G BAI I / STATION	# STATION/	CLOROX #	GLM#	MRID	EPA REG
FAII =			2			of tiproriii.	S 10 3. / III	pronii is acces	A failure for fipronii is access to 3.7119 of fipronii.

If the # Station is more than 9, then according to 16 CFR 1700.20 access to 9 stations (more than 8) is a failure. 15.7mg = 0.5mg/kg times 11.4kg , which is the NOEL for acute neurotoxicity times the weight of a 25 lb child.

station must be tested with stakes given to children. For indoor use stake is not used with bait station, but stake is sold with bait station in retail boxes. Therefore bait

FIPRONIL

A failure for fipronil is access to 5.7mg fipronil. A worst case scenario is assumed when the number of stations per retail package or the amount of bait per station varies for the same EPA REG #.

	·														-		use)	(outdoor	Ž	_		EPA REG #   MRID
												·		·			<u> </u>	<del></del>	10-7001	$\dashv$	<del></del>	
				,												.,	چ <del>رنورن</del>	(0/30)	(30/3/	1/0720		GLM#
																			0000	06_067A	#	CLOROX
						-						•				•	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	black base	areen lid &	30ml HIPS	THICK	PKG
											access bait.	holes 0.5cm wide for insect to	hole for stake. Station has 4	Station has 0.7cm diameter.	5.2cm x 5.2 cm x 1.1 cm high.	0.5cm diameter). Station	cm long 4.5 cm on top &		ase with	Retail package contains		PKG DESCRIPTION
multiple stations at one time.	given them 1 x 1 rather than	get into the station more when	observation that children try to	experience led to an	station. Additionally, their test	corroborate the CRE of this	has multiple units would	GLM14598A where the child	scenario. Furthermore they feel	encounter it in the home	station is how child would	Note: Registrant stated that 1	stations) Report 100% CRE.	child 2 stations, 1 child 3	access 1 or more stations (2	bait stations. 14 children	stations. Failure = access to 9	time up to 12 if continue to open	give child stake & 1 station at a	Weathered station tested by		COMPANY DATA

	<u>(3)</u>					
beginning of the test. 5 children accessed one bait station(1 before demonstration & 4 after demonstration)						
According to registrant a failure is access to one bait station, and the children were given 2 six-ups (12 stations) at the beginning of the test. The GLM report confirms the children	Retail package contains black lid and black base station. Station is 5.3cm x 5.3 cm x 1.1cm high. Station has 4 holes 0.7cm wide for insect to access bait.	30 ml black lid & base	96-119A	14598A	441841-01	64240-GE
Weathered station tested by give child 12 stations (2 6-ups) at beginning of test. No written report was submitted for this study.	Retail package contains green lid & black base with green "L" shape stake (7.5 cm long 4.5 cm on top & 0.5cm diameter). Station 5.2cm x 5.2 cm x 1.0 cm high. Station has 0.7cm diameter hole for stake. Station has 4 holes 0.7cm wide for insect to access bait.	30ml HIPS green lid, 25ml HIPS black base	97-007A	15040A		64240-GN
According to registrant a failure is access to one bait station, and the children were given 2 six-ups (12 stations) at the beginning of the test. The GLM report confirms the children were given 2 bait cards at the beginning of the test. 5 children accessed one bait station(1 before demonstration & 4 after demonstration)	Retail package contains black lid and black base station. Station is 5.3cm x 5.3 cm x 1.1cm high. Station has 4 holes 0.7cm wide for insect to access bait.	30 ml black lid & base	96-119A	14598A	441841-01	64240-GN (indoor use)
COMPANY DATA	PKG DESCRIPTION	PKG THICK	CLOROX #	GLM#	MRID	EPA REG#

	64248-RN	64248-RR	64240-GG	EPA REG#
	441357-01	441357-01	441841-01	MRID
	14358A	14358A	14598A	GLM#
	96-075A	96-075A	96-119A	CLOROX #
	25ml HIPS black base & 30ml red see thru K- resin lid	25ml HIPS black base & 30ml red see thru K- resin lid	30 ml black lid & base	PKG THICK
	Retail package contains red see thru lid & black base. Station 5.3cm x 5.3 cm x 1.1 cm high. Station has 4 holes 0.5cm wide for insect to access bait	Retail package contains red see thru lid & black base. Station 5.3cm x 5.3 cm x 1.1 cm high. Station has 4 holes 0.5cm wide for insect to access bait.	Retail package contains black lid and black base station. Station is 5.3cm × 5.3 cm × 1.1cm high. Station has 4 holes 0.7cm wide for insect to access bait.	PKG DESCRIPTION
Genous	Children were given 2 six-ups (12 stations) at the beginning of the test. Failure = access to 9 bait stations. One child opened 4 stations (1 before demonstration) and one child opened one station after	Children were given 2 six-ups (12 stations) at the beginning of the test. Failure = access to 9 bait stations. One child opened 4 stations (1 before demonstration) and one child opened one station after demonstration.	According to registrant a failure is access to one bait station, and the children were given 2 six-ups (12 stations) at the beginning of the test. The GLM report confirms the children were given 2 bait cards at the beginning of the test. 5 children accessed one bait station(1 before demonstration & 4 after demonstration)	COMPANY DATA

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	64248-RE	64248-RE	64240-GU	64240-GU	EPA REG#
	441336-02	441336-02	441336-02	441336-02	MRID
	14507A	14507A	14507A	14507A	GLM#
	96-095A	96-095A	96-095A	96-095A	CLOROX
	Black HIPS 0.04"	Black HIPS 0.04"	Black HIPS 0.04"	Black HIPS 0.04"	PKG THICK
	Retail package contains black lid & black base. Station 8.2cm x 8.2 cm x 1.7 cm high. Station has 4 holes 1.2cm wide for insect to access bait	Retail package contains black lid & black base. Station 8.2cm x 8.2 cm x 1.7 cm high. Station has 4 holes 1.2cm wide for insect to access bait	Retail package contains black lid & black base. Station 8.2cm x 8.2 cm x 1.7 cm high. Station has 4 holes 1.2cm wide for insect to access bait	Retail package contains black lid & black base. Station 8.2cm x 8.2 cm x 1.7 cm high. Station has 4 holes 1.2cm wide for insect to access bait	PKG DESCRIPTION
	According to registrant a failure is access to one bait station. Children were given 2 four-ups (8 stations) at the beginning of the test. One child opened 2 stations before demonstration.	According to registrant a failure is access to one bait station. Children were given 2 four-ups (8 stations) at the beginning of the test. One child opened 2 stations before demonstration.	According to registrant a failure is access to one bait station. Children were given 2 four-ups (8 stations) at the beginning of the test. One child opened 2 stations before demonstration.	According to registrant a failure is access to one bait station. Children were given 2 four-ups (8 stations) at the beginning of the test. One child opened 2 stations before demonstration.	COMPANY DATA

## FIPRONIL

involves the use of a stake in the retail package and the child test must involve giving the children the stakes with			-			
- ・						
REG #64240-GN (indoor use) because there was no stake				<del> </del>		
		<del>,</del>			(indoor use)	
5 children accessed one bait station(1 before demonstration 8, 4 after demonstration). This is a pass of the child test	Yes	96-119A	14598A	441841-01	64240-GN	
and may be used to support the CRE for this station.						
15040A is an acceptable substitute for study GLM 14273A	<del></del>					
registrant's observations are accurate. However GLM		-				
seen testing the exact station with children getting the					-	
stake for use in opening the packaging. No data has been						
children with multiple units, but without the advantage of the			<del></del>	<del>, , , , , , , , , , , , , , , , , , , </del>		
In response to the registratics request to assume that				ing garantin	•	
2 stations, 1 child 3 stations).						
of the children. 14 children access 1 or more stations (2 child	,					
the children, and one site (75) was used for more than 20%	-				•	
resulting in 1 subject being age 33 library, reaving cirry or   valid test subjects. One tester (61) tested more than 30% of			÷			
test subjects (pkges 13, 7,21, & 34) were miscalculated				·		
Other discrepancies with the protocol were: the age of four					use)	
Therefore, no conclusions could be drawn from the data.			(0/30)		(outdoor	
giving all stations to the child at the beginning of the test	11/27/95	96-06/A	14273A (6/06)	441337-01	64240-GN	
The shild test was not conducted according to the protocol of	<b>V</b>	1 20000				
CONCLUSIONS	CERT	# CLOROX	GLM#	MRID	EPA REG#	
O NOTICE TO THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNE	2					

the station.			<del></del>		•
CKE package. Tills (est till as till as till as			>	<del></del>	•
This test will be adequate to show the CRE of		•		<u></u>	•
would change the results of the test from a CRE to a non					
doubtful, that giving the children an additional 12 stations					-
and one child opened one station after demonstration.			-		
opened multiple stations (4 stations - 1 perore delitions and 1)				-	
get 12 stations at the beginning of the test, and only one cime					-: -:
fipronii in ali 24 stations is less triai occinie, and only one child		•			
stations tested with the children size than 5 7mg the children did				<del> , ,</del>	. <u></u>
package to the shildren However the amount of	<del></del>				
backgap to 19 to be consistent with the number of					
registrant to limit the number of stations per retail	•			<del></del>	
beginning of the test. It would be preferred for the		<del>,</del>			
children should have been given 24 stations at the	Yes   11/27/95	96-075A	14358A	441357-01	64248-RN
The Brown Balance 24 stations and as such					
_		-	<u>, , , , , , , , , , , , , , , , , , , </u>		
demonstration. This is a pass of the child test according to				· · · · · · · · ·	
heafore demonstration) and one child opened one station after	06/01/01				
EPA REG # 64248-RR a failure is 8 stations not 9 pased on the child opened 4 stations (1	Yes	96-075A	14358A	441357-01	64248-RR
Section and the section and th					
according to the sequential test chart in 16 CFR 1700.20.	12/20/96				i
5 children accessed one bait station(1 before demonstration	Yes	96-119A	14598A	441841-01	64240-GG
according to the sequential test chart				-	
& 4 after demonstration). Trils is a pass of the crime con-	8/15/96				( i
5 children accessed one bait station(1 perore delitions and in	Yes	96-119A	14598A	441841-01	64240-GE
BEC #64240-GN (both outdoor & indoor use).					
This strict may be used to demonstrate the CRE for EPA					
children opened two balt stations. This is a page of the children opened two balt stations. This is a page of the children opened two balt stations.					
demonstration). 2 dillicited operated one bar occurrence of the child					
4 children accessed ≥one bait station (∠ percie ∞ ∠ aliei	No	97-007A	15040A		64240-GN
	CHZ	#			
CONCLUSIONS	CRP	CLOROX	GLM#	MRID	EPA REG#
				-	

	-		A		
EPA REG#	MRID	GLM#	CLOROX #	CRP CERT <sup>1</sup>	CONCLUSIONS
64240-GU	441336-02	14507A	96-095A	Yes 10/21/96	$\cdot \circ \circ = $
					demonstration. This is a pass of the child test according to the sequential test chart in 16 CFR 1700.20.
64240-GU	441336-02	14507A	96-095A	Yes 10/21/96	There is no photograph of the package tested nor is the thickness of plastic used clear. A <b>failure</b> based on the worst case scenario (2.75 g bait/station) and <b>filpronil toxicity is 7</b>
					stations. One child opened two stations before demonstration. This is a pass of the child test according to the sequential test chart in 16 CFR 1700.20.
64248-RE	441336-02	14507A	96-095A	Yes 10/21/96	There is no photograph of the package tested nor is the thickness of plastic used clear. A <b>failure</b> based on the worst
					stations. One child opened two stations before demonstration. This is a pass of the child test according to the sequential test chart in 16 CFR 1700.20.

1 Child test only, new certifications required per PR 96-2 by 1/21/98.

64248-RE

441336-02

14507A

96-095A

Yes 10/21/96

thickness of plastic used clear. A failure based on the worst

There is no photograph of the package tested nor is the

case scenario (2.75 g bait/station) and filpronil toxicity is 7

demonstration. This is a pass of the child test according to

stations. One child opened two stations before

the sequential test chart in 16 CFR 1700.20.